

Serial Number:

09/965, 116A

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically:
- ☐ Edited the Current Application Data section with the actual current number. The number input by the applicant was ☐ the prior application data; or ☐ other
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included:
- ☐ Deleted extra, invalid, headings used by an applicant, specifically:
- ☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as
- ☐ Inserted mandatory headings, specifically:
- ☐ Corrected an obvious error in the response, specifically:
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically:
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected:
- ☐ Other:

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

#13



OIPE

RAW SEQUENCE LISTING

DATE: 03/29/2002

PATENT APPLICATION: US/09/965,116A

TIME: 10:09:34

Input Set : A:\pto_ms.txt

Output Set: N:\CRF3\03292002\I965116A.raw

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3 <110> APPLICANT: Kandimalla, Ekambar R.
4     Zhao, Qiuyan
5     Yu, Dong
6     Agrawal, Sudhir
8 <120> TITLE OF INVENTION: Modulation of Immunostimulatory Activity of
Immunostimulatory
9     Modified oligodeoxynucleotide phosphorothioate Analogs by
10    Positional Chemical Changes
12 <130> FILE REFERENCE: HYZ-479CP (47508.577)
14 <140> CURRENT APPLICATION NUMBER: US 09/965,116A
C--> 15 <141> CURRENT FILING DATE: 2002-03-08
17 <150> PRIOR APPLICATION NUMBER: US 09/712,898
18 <151> PRIOR FILING DATE: 2000-11-15
20 <150> PRIOR APPLICATION NUMBER: US 60/235,452
21 <151> PRIOR FILING DATE: 2000-09-26
23 <150> PRIOR APPLICATION NUMBER: US 60/235,453
24 <151> PRIOR FILING DATE: 2000-09-26
26 <160> NUMBER OF SEQ ID NOS: 112
28 <170> SOFTWARE: FastSEQ for Windows Version 4.0
30 <210> SEQ ID NO: 1
31 <211> LENGTH: 18
32 <212> TYPE: DNA
33 <213> ORGANISM: Artificial Sequence
35 <220> FEATURE:
36 <223> OTHER INFORMATION: synthesis of CpG-PS-oligos containing cytosine analogs
38 <400> SEQUENCE: 1
39 ctatctgacg ttctctgt                                     18
41 <210> SEQ ID NO: 2
42 <211> LENGTH: 18
43 <212> TYPE: DNA
44 <213> ORGANISM: Artificial Sequence
46 <220> FEATURE:
47 <223> OTHER INFORMATION: synthesis of CpG-PS-oligos containing cytosine analogs
W--> 49 <221> NAME/KEY: modified_base
50 <222> LOCATION: 9
51 <223> OTHER INFORMATION: c = 5-hydroxydeoxycytidine
W--> 53 <400> 2
54 ctatctgacg ttctctgt                                     18
56 <210> SEQ ID NO: 3
57 <211> LENGTH: 18
58 <212> TYPE: DNA
59 <213> ORGANISM: Artificial Sequence
61 <220> FEATURE:
62 <223> OTHER INFORMATION: synthesis of CpG-PS-oligos containing cytosine analogs

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/965,116A

DATE: 03/29/2002

TIME: 10:09:34

Input Set : A:\pto_ms.txt

Output Set: N:\CRF3\03292002\I965116A.raw

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      66 <223> OTHER INFORMATION: c = 5-hydroxydeoxycytidine
W--> 68 <400> 3
      69 ctatctgacc ttctctgt 18
      71 <210> SEQ ID NO: 4
      72 <211> LENGTH: 18
      73 <212> TYPE: DNA
      74 <213> ORGANISM: Artificial Sequence
      76 <220> FEATURE:
      77 <223> OTHER INFORMATION: synthesis of CpG-PS-oligos containing cytosine analogs
W--> 79 <221> NAME/KEY: modified_base
      80 <222> LOCATION: 9
      81 <223> OTHER INFORMATION: c = N4-ethyldeoxycytidine
W--> 83 <400> 4
      84 ctatctgacg ttctctgt 18
      86 <210> SEQ ID NO: 5
      87 <211> LENGTH: 18
      88 <212> TYPE: DNA
      89 <213> ORGANISM: Artificial Sequence
      91 <220> FEATURE:
      92 <223> OTHER INFORMATION: synthesis of CpG-PS-oligos containing cytosine analogs
W--> 94 <221> NAME/KEY: modified_base
      95 <222> LOCATION: 10
      96 <223> OTHER INFORMATION: c = N4-ethyldeoxycytidine
W--> 98 <400> 5
      99 ctatctgacc ttctctgt 18
     101 <210> SEQ ID NO: 6
     102 <211> LENGTH: 16
     103 <212> TYPE: DNA
     104 <213> ORGANISM: Artificial Sequence
     106 <220> FEATURE:
     107 <223> OTHER INFORMATION: synthesis of end-blocked CpG-PS modified
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     108 phosphorothioate
     110 <400> SEQUENCE: 6
     111 aaggctcgagc gttctc 16
     113 <210> SEQ ID NO: 7
     114 <211> LENGTH: 18
     115 <212> TYPE: DNA
     116 <213> ORGANISM: Artificial Sequence
W--> 117 <220> FEATURE:
     118 <223> OTHER INFORMATION: synthesis of end-blocked CpG-PS modified
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     119 phosphorothioate
     121 <400> SEQUENCE: 7
     122 atggcgacg ctgggaga 18
     124 <210> SEQ ID NO: 8
     125 <211> LENGTH: 18
     126 <212> TYPE: DNA
     127 <213> ORGANISM: Artificial Sequence

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RAW SEQUENCE LISTING

DATE: 03/29/2002

PATENT APPLICATION: US/09/965,116A

TIME: 10:09:34

Input Set : A:\pto_ms.txt

Output Set: N:\CRF3\03292002\I965116A.raw

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129 <220> FEATURE:
130 <223> OTHER INFORMATION: oligodeoxynucleotide phosphorothioate
132 <400> SEQUENCE: 8
133 cctactagcg ttctcatc 18
135 <210> SEQ ID NO: 9
136 <211> LENGTH: 18
137 <212> TYPE: DNA
138 <213> ORGANISM: Artificial Sequence
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144 <222> LOCATION: 10
145 <223> OTHER INFORMATION: g = 1',2'-Dideoxyribose
W--> 147 <400> 9
148 cctactagcg ttctcatc 18
150 <210> SEQ ID NO: 10
151 <211> LENGTH: 18
152 <212> TYPE: DNA
153 <213> ORGANISM: Artificial Sequence
155 <220> FEATURE:
156 <223> OTHER INFORMATION: modified oligodeoxynucleotide phosphorothioate
W--> 158 <221> NAME/KEY: modified_base
159 <222> LOCATION: 8
160 <223> OTHER INFORMATION: g = 1',2'-Dideoxyribose
W--> 162 <400> 10
163 cctactagcg ttctcatc 18
165 <210> SEQ ID NO: 11
166 <211> LENGTH: 18
167 <212> TYPE: DNA
168 <213> ORGANISM: Artificial Sequence
170 <220> FEATURE:
171 <223> OTHER INFORMATION: modified oligodeoxynucleotide phosphorothioate
W--> 173 <221> NAME/KEY: modified_base
174 <222> LOCATION: 7
175 <223> OTHER INFORMATION: a = 1',2'-Dideoxyribose
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178 cctactagcg ttctcatc 18
180 <210> SEQ ID NO: 12
181 <211> LENGTH: 18
182 <212> TYPE: DNA
183 <213> ORGANISM: Artificial Sequence
185 <220> FEATURE:
186 <223> OTHER INFORMATION: modified oligodeoxynucleotide phosphorothioate
W--> 188 <221> NAME/KEY: modified_base
189 <222> LOCATION: 6
190 <223> OTHER INFORMATION: t = 1',2'-Dideoxyribose
W--> 192 <400> 12
193 cctactagcg ttctcatc 18
195 <210> SEQ ID NO: 13

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/965,116A

DATE: 03/29/2002

TIME: 10:09:34

Input Set : A:\pto_ms.txt

Output Set: N:\CRF3\03292002\I965116A.raw

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196 <211> LENGTH: 18
197 <212> TYPE: DNA
198 <213> ORGANISM: Artificial Sequence
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201 <223> OTHER INFORMATION: modified oligodeoxynucleotide phosphorothioate
W--> 203 <221> NAME/KEY: modified_base
204 <222> LOCATION: 5
205 <223> OTHER INFORMATION: c = 1',2'-Dideoxyribose
W--> 207 <400> 13
208 cctactagcg ttctcatc 18
210 <210> SEQ ID NO: 14
211 <211> LENGTH: 18
212 <212> TYPE: DNA
213 <213> ORGANISM: Artificial Sequence
215 <220> FEATURE:
216 <223> OTHER INFORMATION: modified oligodeoxynucleotide phosphorothioate
W--> 218 <221> NAME/KEY: modified_base
219 <222> LOCATION: 4
220 <223> OTHER INFORMATION: a = 1',2'-Dideoxyribose
W--> 222 <400> 14
223 cctactagcg ttctcatc 18
225 <210> SEQ ID NO: 15
226 <211> LENGTH: 18
227 <212> TYPE: DNA
228 <213> ORGANISM: Artificial Sequence
230 <220> FEATURE:
231 <223> OTHER INFORMATION: modified oligodeoxynucleotide phosphorothioate
W--> 232 <221> NAME/KEY: modified_base
233 <222> LOCATION: 4
234 <223> OTHER INFORMATION: a = 1',2'-Dideoxyribose
W--> 236 <400> 15
237 cctactagcc ttctcatc 18
239 <210> SEQ ID NO: 16
240 <211> LENGTH: 18
241 <212> TYPE: DNA
242 <213> ORGANISM: Artificial Sequence
244 <220> FEATURE:
245 <223> OTHER INFORMATION: modified oligodeoxynucleotide phosphorothioate
W--> 247 <221> NAME/KEY: modified_base
248 <222> LOCATION: 11
249 <223> OTHER INFORMATION: t = 1',2'-Dideoxyribose
W--> 251 <400> 16
252 cctactagcg ttctcatc 18
254 <210> SEQ ID NO: 17
255 <211> LENGTH: 18
256 <212> TYPE: DNA
257 <213> ORGANISM: Artificial Sequence
259 <220> FEATURE:
260 <223> OTHER INFORMATION: modified oligodeoxynucleotide phosphorothioate

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/965,116A

DATE: 03/29/2002

TIME: 10:09:34

Input Set : A:\pto_ms.txt

Output Set: N:\CRF3\03292002\I965116A.raw

```

W--> 262 <221> NAME/KEY: modified_base
      263 <222> LOCATION: 12
      264 <223> OTHER INFORMATION: t = 1',2'-Dideoxyribose
W--> 266 <400> 17
      267 cctactagcg ttctcatc
      269 <210> SEQ ID NO: 18
      270 <211> LENGTH: 18
      271 <212> TYPE: DNA
      272 <213> ORGANISM: Artificial Sequence
      274 <220> FEATURE:
      275 <223> OTHER INFORMATION: modified oligodeoxynucleotide phosphorothioate
W--> 277 <221> NAME/KEY: modified_base
      278 <222> LOCATION: 13
      279 <223> OTHER INFORMATION: c = 1',2'-Dideoxyribose
W--> 281 <400> 18
      282 cctactagcg ttctcatc
      284 <210> SEQ ID NO: 19
      285 <211> LENGTH: 18
      286 <212> TYPE: DNA
      287 <213> ORGANISM: Artificial Sequence
      289 <220> FEATURE:
      290 <223> OTHER INFORMATION: modified oligodeoxynucleotide phosphorothioate
W--> 292 <221> NAME/KEY: modified_base
      293 <222> LOCATION: 14
      294 <223> OTHER INFORMATION: t = 1',2'-Dideoxyribose
W--> 296 <400> 19
      297 cctactagcg ttctcatc
      299 <210> SEQ ID NO: 20
      300 <211> LENGTH: 18
      301 <212> TYPE: DNA
      302 <213> ORGANISM: Artificial Sequence
      304 <220> FEATURE:
      305 <223> OTHER INFORMATION: modified oligodeoxynucleotide phosphorothioate
W--> 307 <221> NAME/KEY: modified_base
      308 <222> LOCATION: 4, 5
      309 <223> OTHER INFORMATION: ac = 1',2'-Dideoxyribose
W--> 311 <400> 20
      312 cctactagcg ttctcatc
      314 <210> SEQ ID NO: 21
      315 <211> LENGTH: 18
      316 <212> TYPE: DNA
      317 <213> ORGANISM: Artificial Sequence
      319 <220> FEATURE:
      320 <223> OTHER INFORMATION: modified oligodeoxynucleotide phosphorothioate
W--> 322 <221> NAME/KEY: modified_base
      323 <222> LOCATION: 1, 2
      324 <223> OTHER INFORMATION: cc = 1',2'-Dideoxyribose
W--> 326 <400> 21
      327 cctactagcg ttctcatc

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/965,116A

DATE: 03/29/2002

TIME: 10:09:35

Input Set : A:\pto_ms.txt

Output Set: N:\CRF3\03292002\I965116A.raw

L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:49 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:53 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
L:64 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:68 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
L:79 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:83 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4
L:94 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:98 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:5
L:117 M:283 W: Missing Blank Line separator, <220> field identifier
L:143 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:147 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:9
L:158 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:162 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:10
L:173 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:177 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:11
L:188 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:192 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:12
L:203 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:207 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:13
L:218 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:222 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:14
L:232 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:236 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:15
L:247 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:251 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:16
L:262 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:266 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:17
L:277 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:281 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:18
L:292 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:296 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:19
L:307 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:311 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:20
L:322 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:326 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:21
L:337 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:341 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:22
L:352 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:357 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:23
L:368 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:372 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:24
L:383 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:387 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:25
L:398 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:402 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:26
L:413 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:418 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:27

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/965,116A

DATE: 03/29/2002

TIME: 10:09:35

Input Set : A:\pto_ms.txt

Output Set: N:\CRF3\03292002\I965116A.raw

L:429 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:433 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:28
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L:448 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:29
L:459 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:463 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:30
L:474 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:479 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:31
L:490 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
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L:505 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:509 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:33
L:520 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:524 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:34
L:535 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:539 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:35
L:550 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:554 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:36
L:565 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:569 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:37
L:580 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:584 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:38
L:595 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:599 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:39
L:610 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:614 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:40
L:625 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:629 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:41
L:639 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:643 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:42
L:654 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:658 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:43
L:669 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:673 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:44
L:684 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:688 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:45
L:699 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:703 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:46
L:714 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:718 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:47
L:729 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:733 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:48
L:744 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:748 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:49
L:759 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:763 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:50
L:774 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:778 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:51
L:789 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/965,116A

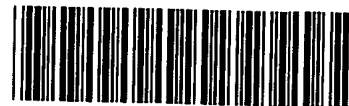
DATE: 03/29/2002

TIME: 10:09:35

Input Set : A:\pto_ms.txt

Output Set: N:\CRF3\03292002\I965116A.raw

L:793 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:52
L:804 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:808 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:53
L:819 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:823 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:54
L:973 M:283 W: Missing Blank Line separator, <400> field identifier
L:1600 M:283 W: Missing Blank Line separator, <400> field identifier



Does Not Comply
Corrected Diskette Needed

OIKE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/965,116A

DATE: 03/26/2002

TIME: 16:24:51

Input Set : A:\47508-577.ST25.txt

Output Set: N:\CRF3\03262002\I965116A.raw

3 <110> APPLICANT: Kandimalla, Ekambar R.
 4 Zhao, Qiuyan
 5 Yu, Dong
 6 Agrawal, Sudhir
 8 <120> TITLE OF INVENTION: Modulation of Immunostimulatory Activity of
 Immunostimulatory
 9 Modified oligodeoxynucleotide phosphorothioate Analogs by
 10 Positional Chemical Changes
 12 <130> FILE REFERENCE: HYZ-479CP (47508.577)
 14 <140> CURRENT APPLICATION NUMBER: US 09/965,116A
 C--> 15 <141> CURRENT FILING DATE: 2002-03-08
 17 <150> PRIOR APPLICATION NUMBER: US 09/712,898
 18 <151> PRIOR FILING DATE: 2000-11-15
 20 <150> PRIOR APPLICATION NUMBER: US 60/235,452
 21 <151> PRIOR FILING DATE: 2000-09-26
 23 <150> PRIOR APPLICATION NUMBER: US 60/235,453
 24 <151> PRIOR FILING DATE: 2000-09-26
 26 <160> NUMBER OF SEQ ID NOS: 112
 28 <170> SOFTWARE: FastSEQ for Windows Version 4.0

ERRORED SEQUENCES

1678 <210> SEQ ID NO: 112
 1679 <211> LENGTH: 18
 1680 <212> TYPE: DNA
 1681 <213> ORGANISM: Artificial Sequence
 1683 <220> FEATURE:
 1684 <223> OTHER INFORMATION: modified oligodeoxynucleotide phosphorothioate
 1686 <221> NAME/KEY: modified_base
 1687 <222> LOCATION: 13
 1688 <223> OTHER INFORMATION: c = 1',2'-Dideoxyribose
 1690 <400> SEQUENCE: 112
 1691 ctatctgacg ttctctgt
 E--> 1693 hyz-479cP(47508-577).st25
 E--> 1699 Page 1

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Remove extra material at
end of file

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/965,116A

DATE: 03/26/2002

TIME: 16:24:53

Input Set : A:\47508-577.ST25.txt

Output Set: N:\CRF3\03262002\I965116A.raw

L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:117 M:283 W: Missing Blank Line separator, <220> field identifier
L:973 M:283 W: Missing Blank Line separator, <400> field identifier
L:1600 M:283 W: Missing Blank Line separator, <400> field identifier
L:1693 M:254 E: No. of Bases conflict, LENGTH:Input:25 Counted:30 SEQ:112
L:1693 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:18
L:1693 M:112 C: (48) String data converted to lower case,
M:254 Repeated in SeqNo=112
L:1699 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:1699 M:252 E: No. of Seq. differs, <211>LENGTH:Input:18 Found:34 SEQ:112